
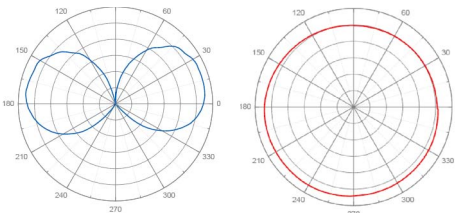
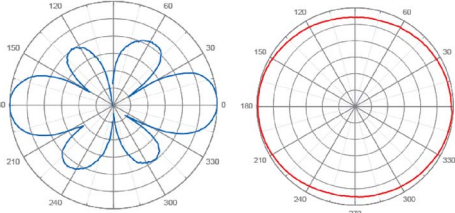

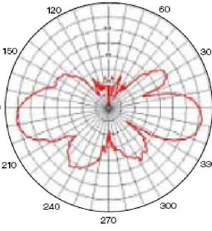
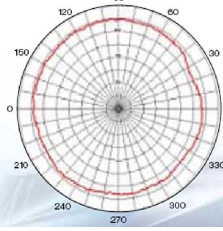

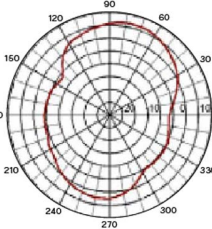
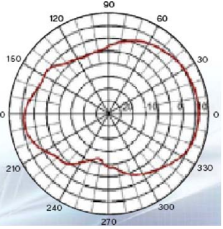

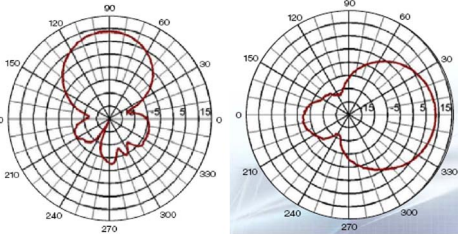

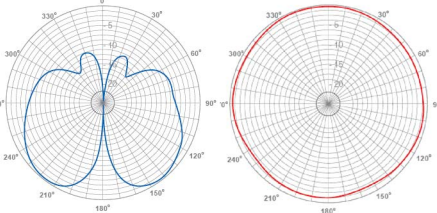

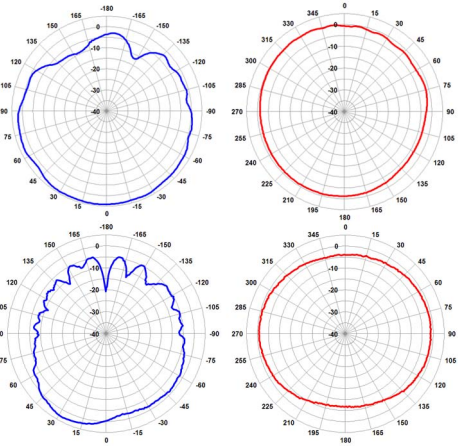

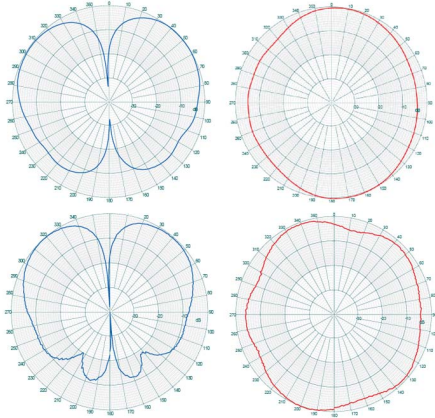

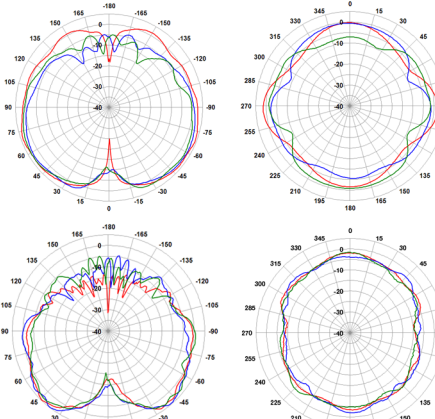

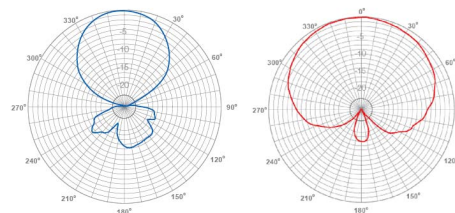

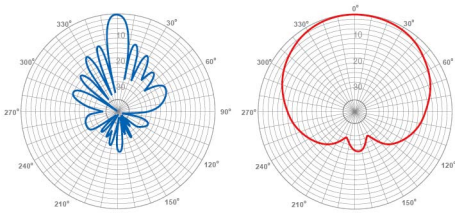

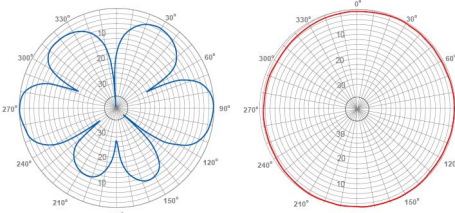

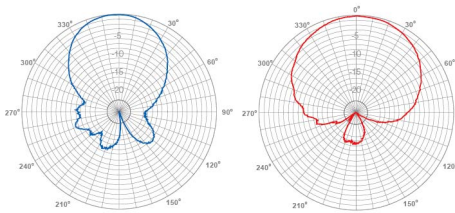



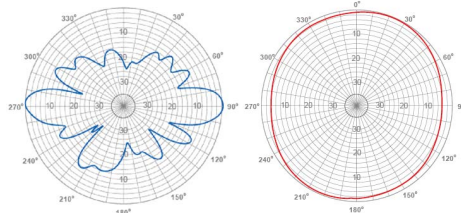

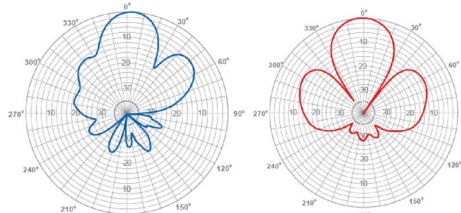

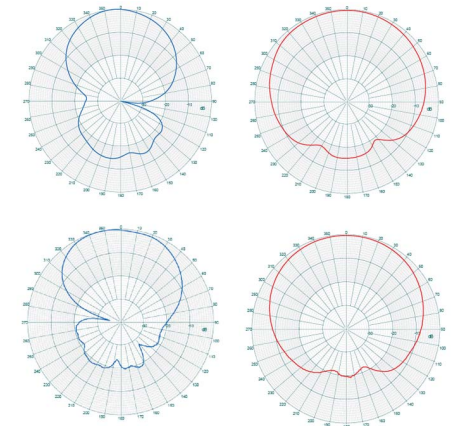
Model	Band	Gain	Polarization & Element Type	Beamwidth	Dimensions	Max Input Power	Operating Temperature	Antenna Pattern (2450Mhz and/or 5500Mhz) Direction of Maximum Gain at 0° Unless Noted
AP-ANT-1B Direct-Mount Omni 	2.4 - 2.5 GHz	3.8 dBi	Vertical, Linear RP-SMA	E-Plane – 50° H-Plane - 360°	1.54" x 0.75" x 5.00"	2 watts Impedence - 50 Ω VSWR <2.0:1	14° F to 131° F -10° C to +55° C	 
	4.900 – 5.875 GHz	5.8 dBi		E-Plane – 25° H-Plane - 360°	3.9 x 1.9 x 12.7 cm			
AP-ANT-2 Ceiling Mount Omni 	2.4-2.5 GHz	6.0 dBi	Vertical, Linear Linear Array RP-SMA	E-Plane – 18° H-Plane - 360°	10.86" x 1.06" 27.6 x 2.7 cm	50 watts Impedence - 50 Ω VSWR <2.0:1	-40° F to 158° F -40° C to +70° C	 
AP-ANT-3 Bidirectional Patch 	2.4-2.5 GHz	5.0 dBi	Vertical, Linear Linear Patch RP-SMA 36" pigtail	E-Plane – 40° H-Plane - 60° Bidirectional	2.72" x 2.52" x 0.79" 6.9 x 6.4 x 2 cm	50 watts Impedence - 50 Ω VSWR <1.8:1	-40° F to 158° F -40° C to +70° C	 


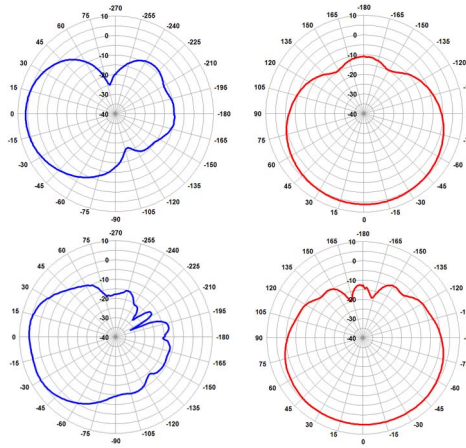
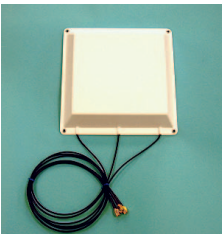
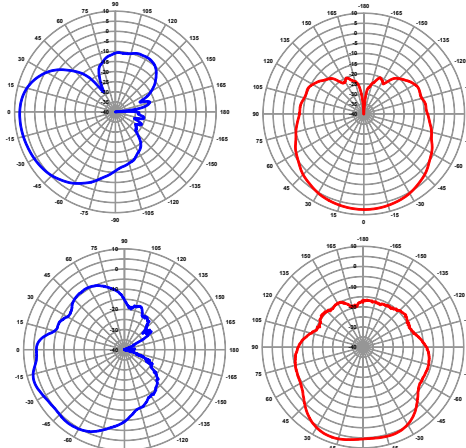
Model	Band	Gain	Polarization & Element Type	Beamwidth	Dimensions	Max Input Power	Operating Temperature	Antenna Pattern (2450Mhz and/or 5500Mhz) Direction of Maximum Gain at 0° Unless Noted
AP-ANT-4 High-Gain Patch 	2.4-2.5 GHz	9.0 dBi	Linear Air-loaded patch RP-SMA 36" pigtail	E-Plane – 60° H-Plane - 60°	5.08" x 5.08" x 0.87" 12.9 x 12.9 x 2.22 cm	50 watts Impedence - 50 Ω VSWR <1.5:1	-40° F to +158° F -40° C to +70° C	
AP-ANT-5 Low-Gain Downtilt Omni 	2.4-2.5 GHz	3.5 dBi	Downtilt Omnidirectional patch RP-SMA 36" pigtail	E-Plane – 50° H-Plane - 360°	4.09" x 4.09" x 0.87" 10.4 x 10.4 x 2.2cm	50 watts Impedence - 50 Ω VSWR <1.5:1	-40° F to +158° F -40° C to +70° C	 <i>E-Plane Direction of Maximum Gain at 180°</i>
AP-ANT-13B Downtilt Omni 	2.4-2.5 GHz	4.4 dBi	Vertical, Linear Downtilt RP-SMA 30" pigtail	E-Plane – 60° H-Plane - 360°	2.16" x 2.16" x 0.63" 5.5 x 5.5 x 1.6cm	2 watts Impedence - 50 Ω VSWR <2.0:1	-40° F to +158° F -40° C to +70° C	
	4.9-5.9 GHz	3.3 dBi						


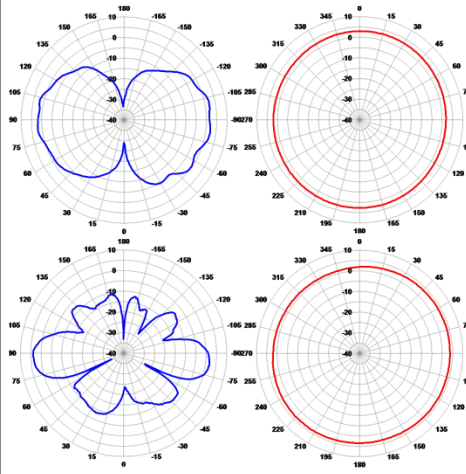



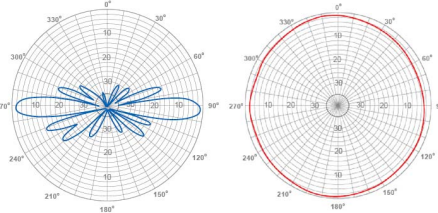

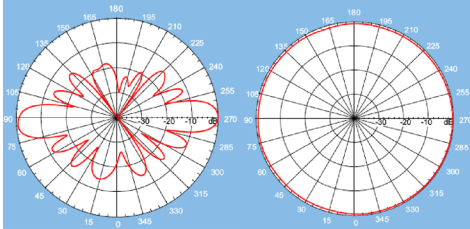

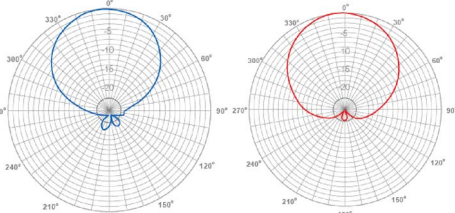

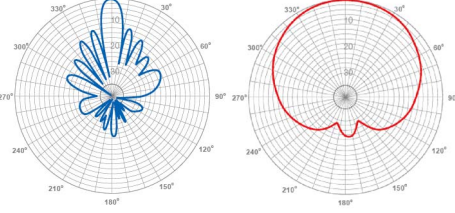
Model	Band	Gain	Polarization & Element Type	Beamwidth	Dimensions	Max Input Power	Operating Temperature	Antenna Pattern (2450Mhz and/or 5500Mhz) Direction of Maximum Gain at 0° Unless Noted
AP-ANT-14 Dual-Band Downtilt Diversity Omni 	2.400 GHz 2.450 GHz 2.500 GHz	3.67 dBi 2.55 dBi 2.83 dBi	Downtilt Vertical, Linear	E-Plane – 57-61° H-Plane - 360°	6.16" x 0.89" x 3.66" 15.65 x 2.26 x 9.3cm	2 watts Impedence - 50 Ω VSWR <2.0:1	-40° F to +158° F -40° C to +70° C	
AP-ANT-16 Downtilt Omni MIMO 3-Element Array 	2.4-2.5 GHz	3.9 dBi	Vertical Downtilt	E-Plane – 60° H-Plane – 360°	12.13" x 3.62" x 0.86" 30.82 x 9.2 x 2.2 cm	2 watts Impedence - 50 Ω VSWR <2.0:1	-40° F to +158° F -40° C to +70° C	
	4.9-5.9 GHz	4.7 dBi	3x RP-SMA 3x 36" pigtails					


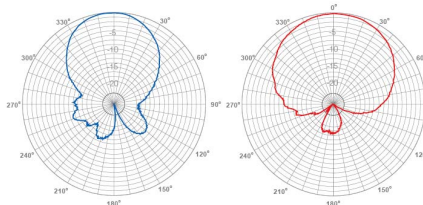

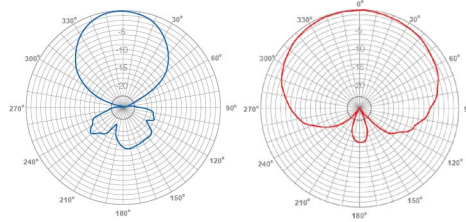

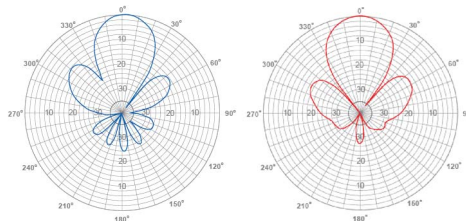

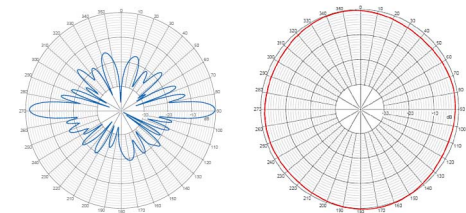
Model	Band	Gain	Polarization & Element Type	Beamwidth	Dimensions	Max Input Power	Operating Temperature	Antenna Pattern (2450Mhz and/or 5500Mhz) Direction of Maximum Gain at 0° Unless Noted
AP-ANT-6 135 Degree Sector 	2.4-2.5 GHz	5.0 dBi	Linear RP-SMA 36" pigtail	E-Plane – 55° H-Plane – 135°	6" x 3" x 2" 15.2 x 7.6 x 5 cm	50 watts Impedence - 50 Ω VSWR <1.5:1	-40° F to +158° F -40° C to +70° C	
AP-ANT-7 90 Degree Sector 	2.4-2.5 GHz	12.0 dBi	Vertical, Linear RP-SMA 36" pigtail	E-Plane – 10° H-Plane – 90°	3" x 26" x 1" 7.6 x 66 x 2.5 cm	50 watts Impedence - 50 Ω VSWR <2.0:1	-22° F to +149° F -30° C to +65° C	
AP-ANT-8 Ceiling Mount Omni 	2.4-2.5 GHz	5.0 dBi	Vertical, Linear RP-SMA 36" pigtail	E-Plane – 30° H-Plane – 360°	11.5" x 7.1" x 0.98" 29.2 x 18 x 2.5 cm	50 watts Impedence - 50 Ω VSWR <1.5:1	-40° F to +158° F -40° C to +70° C	 <i>E-Plane Direction of Maximum Gain at 90° & 270°</i>
AP-ANT-9 90 Degree Sector 	2.4-2.5 GHz	7.0 dBi	Vertical, Linear RP-SMA 36" pigtail	E-Plane – 60° H-Plane – 90°	4.6" x 2.6" x 0.99" 11.8 x 6.8 x 2.5 cm	25 watts Impedence - 50 Ω VSWR <1.5:1	-40° F to +158° F -40° C to +70° C	


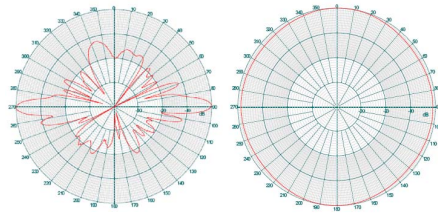

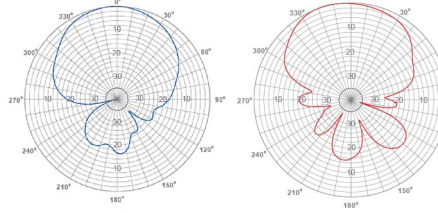
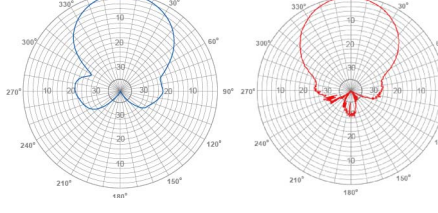

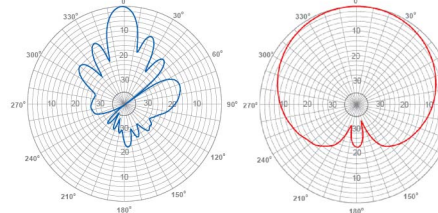
Model	Band	Gain	Polarization & Element Type	Beamwidth	Dimensions	Max Input Power	Operating Temperature	Antenna Pattern (2450Mhz and/or 5500Mhz) Direction of Maximum Gain at 0° Unless Noted
AP-ANT-10 Ceiling Mount Omni 	5.150 - 5.875 GHz	6.0 dBi	Vertical, Linear RP-SMA 36" pigtail	E-Plane – 18° H-Plane - 360°	11.5" x 1.0" 29.2 x 2.54cm	10 watts Impedence - 50 Ω VSWR <2.0:1	-40° F to +158° F -40° C to +70° C	 <i>E-Plane Direction of Maximum Gain at 90° & 270°</i>
AP-ANT-12 High-Gain Directional 	5.150 - 5.350 GHz	14.0 dBi	Vertical, Linear Directional patch RP-SMA 36" pigtail	E-Plane – 30° H-Plane - 30°	4.02" x 4.02" x 1.38" 10.2 x 10.2 x 3.5cm	10 watts Impedence - 50 Ω VSWR <2.0:1	-40° F to +158° F -40° C to +70° C	
AP-ANT-15 120 Degree Sector Dual-Band 	2.4-2.5 GHz	5.0 dBi	Vertical, Linear RP-SMA 36" pigtail	E-Plane – 65° H-Plane - 120°	2.16" x 5.16" x 1.38" 5.49 x 13.11 x 3.51cm	5 watts Impedence - 50 Ω VSWR <2.0:1	-40° F to +158° F -40° C to +70° C	

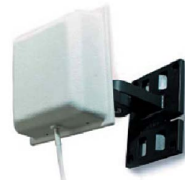
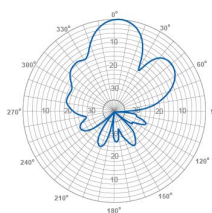
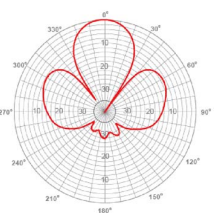

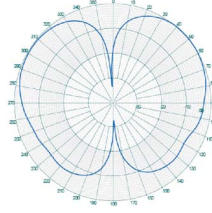
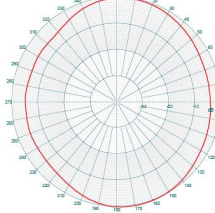
Model	Band	Gain	Polarization & Element Type	Beamwidth	Dimensions	Max Input Power	Operating Temperature	Antenna Pattern (2450Mhz and/or 5500Mhz) Direction of Maximum Gain at 0° Unless Noted
AP-ANT-17 120 Degree Sector Dual-Band MIMO 	2.4-2.5 GHz	6.0 dBi	Vertical, Linear 3x RP-SMA 3x 30" pigtail	E-Plane – 65° H-Plane - 120°	7.9" x 7.9" x 1.26" 20.1 x 20.1 x 3.2 cm	50 watts Impedence - 50 Ω VSWR <1.7:1	-40° F to +158° F -40° C to +70° C	
	4.900 – 5.875 GHz	5.0 dBi		E-Plane – 75° H-Plane - 150°				
AP-ANT-18 60 Degree Sector Dual-Band MIMO 	2.4-2.5 GHz	7.5 dBi	Linear, Vertical Dual slant +/-45 degrees	E-Plane – 60° H-Plane - 60°	7.87" x 7.87" x 1.30" 200 x 200 x 33 mm	20 watts Impedence - 50 Ω VSWR <1.8:1	-40° F to +158° F -40° C to +70° C	
	5.15 – 5.875 GHz	7.5 dBi		E-Plane – 60° H-Plane - 60°				


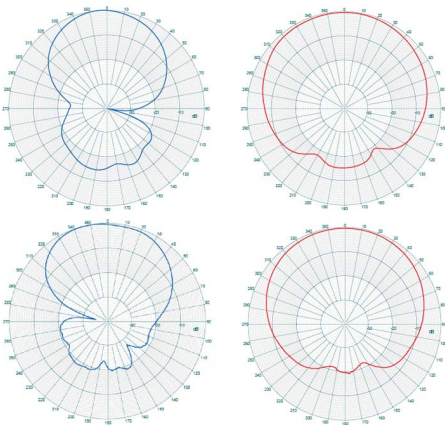

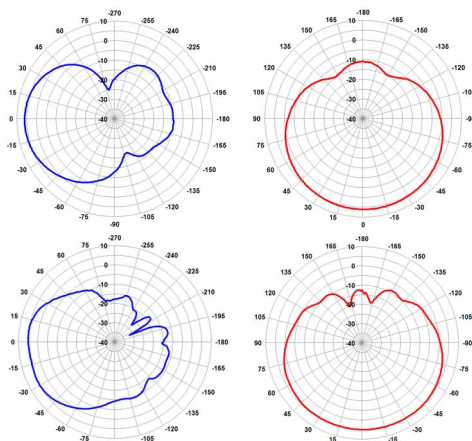

Model	Band	Gain	Polarization & Element Type	Beamwidth	Dimensions	Max Input Power	Operating Temperature	Antenna Pattern (2450Mhz and/or 5500Mhz) Direction of Maximum Gain at 0° Unless Noted
AP-ANT-19 Dual-Band Omni 	2.4-2.5 GHz	3.0 dBi	Vertical	E-Plane – 50° H-Plane - 360°	Height: 245 mm (9.6 in) Weight: 140 kg (0.30 lb)	10 watts Impedence - 50 Ω VSWR <2.0:1	-40° F to +158° F -40° C to +70° C	
	5.15 – 5.875 GHz	6.0 dBi	Omnidirectional coverage RP-SMA 36" pigtail	E-Plane – 20° H-Plane - 360°				




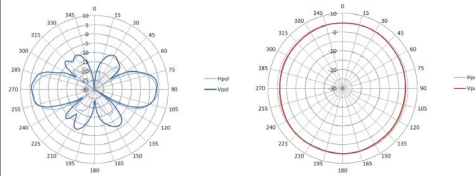
Model	Band	Gain	Polarization & Element Type	Beamwidth	Dimensions	Max Input Power	Operating Temperature	Antenna Pattern (2450Mhz and/or 5500Mhz) Direction of Maximum Gain at 0° Unless Noted
AP-ANT-80 Mast Mount Omni 	2.4-2.5 GHz	8.0 dBi	Vertical N-Male 36" pigtail	E-Plane – 13° H-Plane – 360°	25" x 1" 63.5 x 2.5 cm	20 watts Impedence - 50 Ω VSWR <1.5:1	-40° F to +158° F -40° C to +70° C	 <i>E-Plane Direction of Maximum Gain at 90° & 270°</i>
AP-ANT-80D Direct Mount Omni 	2.4-2.5 GHz	8.0 dBi	Vertical N Male Direct Mount	E-Plane – 13° H-Plane - 360°	19.5" x 0.75" 49.5 x 1.9 cm	50 watts Impedence - 50 Ω VSWR 1.7:1	-40° F to +158° F -40° C to +70° C	 <i>E-Plane Direction of Maximum Gain at 90° & 270°</i>
AP-ANT-81 60 Degree Sector 	2.4-2.5 GHz	8.0 dBi	Vertical, Linear N-Male 36" pigtail	E-Plane – 60° H-Plane – 65°	6" x 6" x 1.25" 15.2 x 15.2 x 3.2 cm	50 watts Impedence - 50 Ω VSWR <1.5:1	-40° F to +158° F -40° C to +70° C	
AP-ANT-82 90 Degree Sector 	2.4-2.5 GHz	12.0 dBi	Vertical, Linear N-Male 36" pigtail	E-Plane – 10° H-Plane – 90°	3" x 26" x 1" 7.6 x 66 x 2.5 cm	50 watts Impedence - 50 Ω VSWR <2.0:1	-22° F to +149° F -30° C to +65° C	

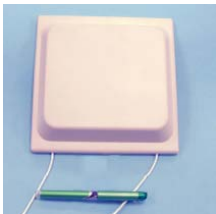
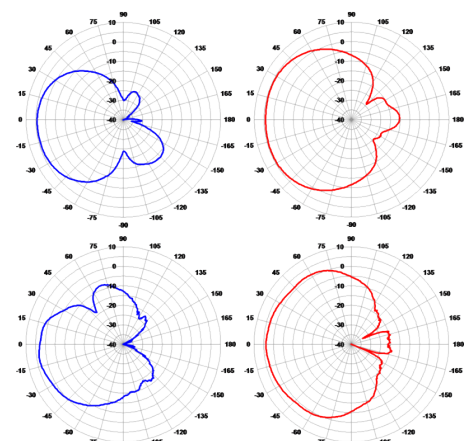

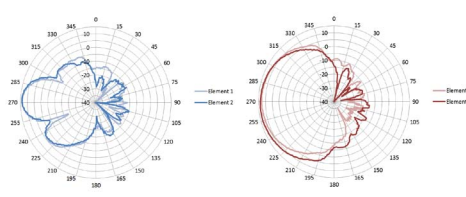

Model	Band	Gain	Polarization & Element Type	Beamwidth	Dimensions	Max Input Power	Operating Temperature	Antenna Pattern (2450Mhz and/or 5500Mhz) Direction of Maximum Gain at 0° Unless Noted
AP-ANT-83 90 Degree Sector 	2.4-2.5 GHz	7.0 dBi	Vertical, Linear N-Male 36" pigtail	E-Plane – 60° H-Plane – 90°	4.6" x 2.6" x 0.99" 11.8 x 6.8 x 2.5 cm	25 watts Impedence - 50 Ω VSWR <1.5:1	-40° F to +158° F -40° C to +70° C	
AP-ANT-84 135 Degree Sector 	2.4-2.5 GHz	5.0 dBi	Linear N-Male 36" pigtail	E-Plane – 55° H-Plane – 135°	6" x 3" x 2" 15.2 x 7.6 x 5cm	50 watts Impedence - 50 Ω VSWR <1.5:1	-40° F to +158° F -40° C to +70° C	
AP-ANT-85 High-Gain Directional 	2.4-2.5 GHz	15.0 dBi	Vertical, Linear N-Male 36" pigtail	E-Plane – 29° H-Plane – 31°	10" x 10" x 1.5" 25.4 x 25.4 x 3.8cm	50 watts Impedence - 50 Ω VSWR 1.5:1	-22° F to +149° F -30° C to +65° C	
AP-ANT-86 Mast Mount Omni 	5.150 – 5.900 GHz	10.0 dBi	Vertical, Linear N-Male 36" pigtail	E-Plane – 8° H-Plane – 360°	19.5" x 1" 49.53 x 2.54cm	10 watts Impedence - 50 Ω VSWR 2.0:1	-22° F to +149° F -30° C to +65° C	 <i>E-Plane Direction of Maximum Gain at 90° & 270°</i>

Model	Band	Gain	Polarization & Element Type	Beamwidth	Dimensions	Max Input Power	Operating Temperature	Antenna Pattern (2450Mhz and/or 5500Mhz) Direction of Maximum Gain at 0° Unless Noted
AP-ANT-86D Direct Mount Omni 	4.900 – 5.875 GHz	10.0 dBi	Vertical, Linear N-Male Direct mount	E-Plane – 8° H-Plane - 360°	19.6" x 1" 49.6 x 2.54 cm	10 watts Impedance - 50 Ω VSWR 2.0:1	-22° F to +149° F -30° C to +65° C	 <i>E-Plane Direction of Maximum Gain at 90° & 270°</i>
AP-ANT-87 Mid-Gain Patch 	2.4-2.5 GHz	7.0 dBi	Vertical, Linear N-Male 36" pigtail	E-Plane – 66° H-Plane - 68°	4.1" x 4.1" x 1.5" 10.4 x 10.4 x 3.8 cm	10 watts Impedance - 50 Ω VSWR <2.0:1	-40° F to +158° F -40° C to +70° C	 
	4.900 – 5.990 GHz	7.0 dBi		E-Plane – 60° H-Plane – 52°				
AP-ANT-88 120 Degree Sector 	4.990 – 5.900 GHz	10 dBi	Vertical, Linear N-Male 36" pigtail	E-Plane – 15° H-Plane – 120°	9.5" x 2.4" x 1" 24.1 x 6.1 x 2.5 cm	10 watts Impedance - 50 Ω VSWR <2.0:1	-22° F to +149° F -30° C to +65° C	

Model	Band	Gain	Polarization & Element Type	Beamwidth	Dimensions	Max Input Power	Operating Temperature	Antenna Pattern (2450Mhz and/or 5500Mhz) Direction of Maximum Gain at 0° Unless Noted
AP-ANT-89 High-Gain Directional 	5.150 - 5.350 GHz	14.0 dBi	Vertical, Linear Directional	E-Plane – 30° H-Plane - 30°	4.02" x 4.02" x 1.38" 10.2 x 10.2 x 3.5 cm	50 watts Impedence - 50 Ω VSWR <2.0:1	-40° F to +158° F -40° C to +70° C	 
	5.470 - 5.875 GHz	13.25 dBi	Patch N-Male 36" pigtail					
AP-ANT-90 Dual-Band Downtilt Diversity Omni 	2.400 GHz	3.67 dBi	Downtilt Vertical, Linear	E-Plane – 57-61° H-Plane - 360°	6.16" x 0.89" x 3.66" 15.65 x 2.26 x 9.3 cm	2 watts Impedence - 50 Ω VSWR <2.0:1	-40° F to +158° F -40° C to +70° C	 
	2.450 GHz	2.55 dBi						
	2.500 GHz	2.83 dBi						
	4.900 GHz	5.14 dBi	N-Male	E-Plane – 55-59° H-Plane – 360°				
	5.150 GHz	4.10 dBi	Dual 36" pigtails					
	5.550 GHz	3.32 dBi						
	5.990 GHz	3.31 dBi						

Model	Band	Gain	Polarization & Element Type	Beamwidth	Dimensions	Max Input Power	Operating Temperature	Antenna Pattern (2450Mhz and/or 5500Mhz) Direction of Maximum Gain at 0° Unless Noted
AP-ANT-91 120 Degree Sector Dual-Band 	2.4-2.5 GHz	5.0 dBi	Vertical, Linear	E-Plane – 65° H-Plane - 120°	2.16" x 5.16" x 1.38" 5.49 x 13.11 x 3.51 cm	5 watts Impedence - 50 Ω VSWR <2.0:1	-40° F to +158° F -40° C to +70° C	
	4.900 – 5.875 GHz	5.0 dBi		E-Plane – 65° H-Plane - 120°				
AP-ANT-92 120 Degree Sector Dual-Band MIMO 3-Element Array 	2.4-2.5 GHz	6.0 dBi	Vertical, Linear	E-Plane – 60° H-Plane - 120°	7.9" x 7.9" x 1.25" 20.1 x 20.1 x 3.2 cm	50 watts Impedence - 50 Ω VSWR <1.7:1	-40° F to +158° F -40° C to +70° C	
	4.900 – 5.875 GHz	5.0 dBi	3x N-Male 3x 30" pigtails	E-Plane – 75° H-Plane - 150°				
AP-ANT-93 MIMO Antenna 	5 GHz	14 dBi	Dual Slant +/- 45° Vertical	E-Plane – 20° H-Plane - 20°	305 x 305 x 15 mm	10 watts VSWR <1.7:1	-55° F to +65° F	

Model	Band	Gain	Polarization & Element Type	Beamwidth	Dimensions	Max Input Power	Operating Temperature	Antenna Pattern (2450Mhz and/or 5500Mhz) Direction of Maximum Gain at 0° Unless Noted
AP-ANT-2418 18 dBi Panel (AP-85 only) 	2.4 – 2.7 GHz	18 dBi	Vertical or Horizontal, Patch N-Male 12" and 36" jumper cables for direct mount to AP-85 or pole mount (pole mount kit included)	E-Plane – 20° H-Plane - 21°	12" x 12" x 0.6" 30.5 x 30.5 x 1.5 cm	30 watts Impedence - 50 Ω VSWR 1.5:1	-40° F to +158° F -40° C to +70° C	
AP-ANT-5016 16 dBi Panel (AP-85 only) 	4.9 – 5.875 GHz	16 dBi	Vertical or Horizontal, Patch N-Male 12" and 36" jumper cables for direct mount to AP-85 or pole mount (pole mount kit included)	E-Plane – 19° H-Plane - 21°	5.9" x 5.9" x 1" 15 x 15 x 2.6 cm	30 watts Impedence - 50 Ω VSWR 1.5:1	40° F to +149° F -40° C to +65° C	
AP-ANT-2x2-2005 2 Omni Antennas 2x2 MIMO Pair 	2.4 - 2.5 GHz	5 dBi	Vpol: Linear, Vertical Hpol: Linear, Horizontal Both: N-type Female	Vpol: E-Plane – 30° Hpol: E-Plane – 25° Both: H-Plane - 360°	Vpol: 309 x 32 x 32 mm 140 g Hpol: 329 x 45 x 45 mm 260 g	Vpol: 50 watts VSWR <1.7:1 Hpol: 10 watts VSWR <2.0:1 Both: Impedence - 50 Ω	Operating: -30° F to +70° C Storage: -40° C to +85° C	

Model	Band	Gain	Polarization & Element Type	Beamwidth	Dimensions	Max Input Power	Operating Temperature	Antenna Pattern (2450Mhz and/or 5500Mhz) Direction of Maximum Gain at 0° Unless Noted
AP-ANT-2x2-D805 120 Degree Sector Dual-Band MIMO 	2.4-2.5 GHz	5.0 dBi	Dual slant +/- 45 degrees 2x 30" pigtails	E-Plane – 70° H-Plane - 120°	7.9" x 7.9" x 1.25" 200 x 200 x 33 mm	20 watts Impedance - 50 Ω VSWR <1.8:1	-40° F to +158° F -40° C to +70° C	
	5.15 – 5.875 GHz	5.0 dBi						
AP-ANT-2x2-2714 70 Degree Sector 2 Element MIMO 	2.400 – 2.483 GHz	14.0 dBi	Dual slant +/- 45 degrees Linear 2xN-type female	E-Plane – 23° H-Plane - 70°	306 x 306 x 25 mm 1,700 g	20 watts Impedance - 50 Ω VSWR <1.5:1	-45° C to +70° C	
AP-ANT-2x2-5614 60 Degree Sector 2 Element MIMO 	5.150 - 5.875 GHz	14.0 dBi	Dual slant +/- 45 degrees 2xN-type female	E-Plane – 14° H-Plane - 60°	10.63" x 4.06" x 1.38" 270 x 103 x 35 mm	50 watts Impedance - 50 Ω VSWR <1.8:1	-40° F to +158° F -40° C to +70° C	